

HAND SANITISER MATERIAL SAFETY DATA SHEET

Conforms to regulation (EC) 1907/2006 (REACH), annex II as amended by Regulation (EU) 453/2010

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY UNDERTAKING

1.1. Product identifier

Trade Name: Hand Sanitiser

1.2. Relevant identified uses of the substance or mixture and uses advised against

Industrial uses: Hand sanitiser
Professional uses: Hand sanitiser
Consumer uses: Hand sanitiser

1.3. Details of the supplier of the safety data sheet

Res-Tec Limited
Unit 25
Castle Park Industrial Estate
Flint
Flintshire
CH6 5XA
Tel: +44 (0) 845 4504 193
Email: enquiries@res-tec.co.uk

1.4. Emergency telephone number

+44 (0) 845 4504 193 (office hours)

1.5. Biocidal Products Regulation (BPR) Product Authorisation

Roberts Manufacturing Ltd, the manufacturer of the product and sister company to Res-Tec Limited, hold a Critical Situation Permit issued by HSE under Article 55(1) of BPR

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Product definition: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]:

Flammable liquids (Category 2), H225
Eye irritation (Category 2), H319
Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336

See Section 16 for the full text of the H-statements declared above.

2.2. Label elements

Hazard pictograms:



Signal word: Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements

none

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredient Name	Concentration %	Regulation (EC) No. 1272/2008 [CLP]
Propan-2-ol CAS: 67-63-0 EC Number: 200-661-7 REACH number: 01-2119457558-25--xxxx	70-90%	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 Concentration limits: >= 20 %: STOT SE 3, H336;

Refer to Section 16 for additional wording.

There are no additional ingredients present at levels which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

4. FIRST AID MEASURES

4.1. Description of first aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.

Eye Contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If eye irritation persists: Get medical advice/attention..

Inhalation

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
 If you feel unwell, seek medical advice (show the label where possible)

Skin Contact

If skin irritation occurs: Get medical advice/attention.

Ingestion

Rinse mouth.
 Give plenty of water to drink
 Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Can cause damage to the eyes
 No hazard expected under normal conditions of use

4.3. Indication of any immediate medical attention and special treatment needed

5. FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing agents: In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide.

For safety reasons unsuitable extinguishing agents: Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Decomposition products may include carbon oxides.
Smoke from fires is irritating. Take precautions to protect personnel from exposure
May form explosive vapour/air mixtures

5.3. Advice for firefighters

Decomposition products may include carbon oxides.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions protective equipment and emergency procedures

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not eat, drink or smoke when using this product.
Use personal protective equipment as required.

6.2. Environmental precautions

Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations

6.4. Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Protective measures & advice on general occupational hygiene:

Keep away from heat, sparks and flame.

Avoid contact with eyes.

Eating, drinking and smoking should not occur when using this material

Always keep in containers made from the same material as the original one.

No special precautions required when used as directed.

Do not allow to enter drains or watercourses.

7.2. Conditions for safe storage, including incompatibilities

Store in a well ventilated place. Keep cool.

7.3. Specific end use(s)

Hand cleanser



8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Product / ingredient Name	Exposure Limit Values
Propan-2-ol	STEL: 1250 mg/m ³ 15 minutes. STEL: 500 ppm 15 minutes. TWA: 999 mg/m ³ 8 hours. TWA: 400 ppm 8 hours.

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product / ingredient name	Type	Exposure	Value	Population	Effects
Propan-2-ol	DNEL	Long Term Inhalation	500 mg/m ³	Workers	Systemic
	DNEL	Long Term Inhalation	89 mg/m ³	Consumers	Systemic
	DNEL	Long Term Dermal	888 mg/kgbw/day	Workers	Systemic
	DNEL	Long Term Dermal	319 mg/kgbw/day	Consumers	Systemic
	DNEL	Long Term Oral	26 mg/kgbw/day	Consumers	Local

PNECs

Product / ingredient name	Compartment Detail	Value	Method Detail
Propan-2-ol	Fresh Water	140.9 mg/l	-
	Marine Water	140.9 mg/l	-
	Fresh Water Sediment	552 mg/kg	-
	Marine Water Sediment	552 mg/kg	-
	Sewerage Treatment Plant	5 mg/l	-
	Soil	28 mg/kg dwt	-

8.2. Exposure control

Apply according to good manufacturing and industrial hygiene practices with proper ventilation. Do not drink, eat or smoke while handling. Respect good personal hygiene. Not required when used as directed.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information:

Appearance:

Form:

Liquid

Colour:

colourless

Odour:

Not Available

Odour threshold:

Not Available

pH-value:

Not Available

Change in condition

Melting point/Melting range:

Not Available

Initial Boiling point/Boiling range:

80°C – 85°C

Flash point:

22°C (estimate)

Evaporation Rate:

Not available

Flammability (solid, gaseous)

Combustible when exposed to heat or flames

Critical values for explosion:

Lower:

2 % (Propan-2-ol)

Upper:

12 % (Propan-2-ol)



Vapour pressure at 20°C:	Not Available
Vapour density:	Not Available
Relative Density:	0.86 g/cm ³ (20°C)
Solubility in / Miscibility with Water:	Completely Soluble
Partition coefficient (n-octanol/water):	Not Available
Auto Ignition temperature:	399°C (Propan-2-ol)
Decomposition Temperature:	Not Available
Viscosity:	Not Available
Explosive Properties:	Not Available
Oxidising Properties:	Not Available

9.2. Other information

No additional information.

10. STABILITY AND REACTIVITY

10.1. Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2. Chemical stability

Stable under recommended storage and handling conditions (see Section 7).

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur

10.4. Conditions to avoid

Keep away from heat
Keep away from naked flames, incandescent or hot surfaces

10.5. Incompatible materials

Aluminium, acids, oxidizing agents, halogenated compounds, acid anhydrides

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. If involved in a fire, toxic gases including CO, CO₂, may be generated.

11. TOXICOLOGICAL DATA

11.1. Information on toxicological effects

There are no data available on the mixture itself.
If splashed in the eyes, the liquid may cause irritation and reversible damage.

Acute Toxicity

Product/ingredient Name	Result	Species	Dose	Exposure
Propan-2-ol	LC50 Inhalation Vapour	Rat	37.5 mg/Kg	4 hours
	LD50 Oral	Rat	5840 mg/Kg	-
	LDLO Dermal	Rat	12800 mg/Kg	-

Conclusion/Summary: Based on available data, the classification criteria are not met

Irritation / Corrosion

Conclusion/Summary
Skin: repeated exposure may cause dryness/cracking
Eyes: Causes eye irritation.
Respiratory: Based on available data, the classification criteria are not met.

Sensitisation
Conclusion/Summary

Skin: Based on available data, the classification criteria are not met.
 Respiratory: Based on available data, the classification criteria are not met.

Mutagenicity
 Conclusion/Summary: Based on available data, the classification criteria are not met.
 Carcinogenicity
 Conclusion/Summary: Based on available data, the classification criteria are not met.

Reproductive toxicity
 Conclusion/Summary: Based on available data, the classification criteria are not met.

Teratogenicity
 Conclusion/Summary: Based on available data, the classification criteria are not met.

12. ECOLOGICAL DATA

12.1. Toxicity

There are no data available on the mixture itself.
 Do not allow to enter drains or watercourses.

Product/ingredient Name	Result	Species	Exposure
Propan-2-ol	LC50 > 1000mg/l desmodesmus subspicatus Fresh Water EC50 13299mg/l daphnia magna Fresh Water LC50 9640 mg/l fathead minnow Fresh Water EC5 pseudomonas putida 1050mg/l	Algae Daphnia Fish bacteriaa	72 hours 48 hours 96 hours 16 hour

Conclusion/Summary: Based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Product/ingredient Name	Test	Result	Dose	Inoculum
Propan-2-ol	Biodegradability aerobic Theoretical oxygen demand Ratio BOD/ThBOD	- 53% - 5 days 2400 mg/g 49%	-	-

Conclusion/Summary: Based on available data, the classification criteria are not met.

Product/ingredient Name	Aquatic half-life	Photolysis	Biodegradability
Propan-2-ol	-	-	Readily

12.3. Bioaccumulative potential

No bioaccumulation is to be expected

12.4. Mobility in soil

Not available

12.5. Results of PBT and VPvB assessment

No components considered to be PBT or vPvB

12.6. Other adverse effects

No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS




General information
 Empty containers may contain residual product and flammable vapours. Keep away from sparks, heat and sources of ignition. Labels should not be

removed. Product is hazardous waste. Do not allow into drains, sewers or water courses. Disposal must be by means of a licensed waste contractor.

13.1. Waste treatment methods

Recommendation: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. D

14. TRANSPORT CONSIDERATIONS

	ADR/RID	IMDG	IATA
14.1 UN Number	UN 1219	UN 1219	UN 1219
14.2 Proper Shipping Name	Isopropanol	Isopropanol	Isopropanol
14.3 Transport Class(es)	3 Flammable liquids. 	3 Flammable liquids. 	3 Flammable liquids. 
14.4 Packing Group	II	II	II
14.5 Environmental Hazards	-	-	-
14.6 Tunnel restriction Code	D/E	D/E	D/E

Marine pollutant: No

14.7. Special precautions for user

Goods are packed in Limited quantities and are therefore exempt from ADR regulations

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

EU regulation (EC) 1907/2006 (REACH)
 Annex XIV – List of substances subject to authorization
 Annex XIV - None of the components are listed
 Substances of very high concern
 None of the components are listed
 Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles
 Not applicable
 Other EU Regulations
 VOC for Ready-for-use mixture
 Not Applicable
 Europe inventory:
 All components are listed or exempted.
 National regulations

15.2. Chemical safety assessment

This product contains substances for which Chemical Safety Assessments are still required.

16. OTHER INFORMATION

Indicates information that has changed from previously issued version.

Abbreviations and acronyms:

ATE = Acute Toxicity Estimate
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 DMEL = Derived Minimal Effect Level
 DNEL = Derived No Effect Level
 EUH statement = CLP-specific Hazard statement
 PBT = Persistent, Bioaccumulative and Toxic
 PNEC = Predicted No Effect Concentration
 RRN = REACH Registration Number
 vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to regulation (EC) 1272/2008 [CLP/GHS]

Classification	Justification
Flamm Liq 2 H225	Calculation Method
Eye Irrit. 2; H319	Calculation Method
STOT SE 3; H336	Calculation Method

Full text of abbreviated H Statements:

H225 – Highly Flammable liquid and vapour.
 H319 - Causes serious eye irritation.
 H336 – May cause drowsiness or dizziness

Full text of Classifications [CLP/GHS]

Flam. Liq. 2, H226	Flammable Liquids Category 2
Eye Irrit. 2, H319	Serious Eye damage / Eye Irritation – Category 2
STOT SE 3, H336	Specific Target Organ Toxicity (Single Exposure) [Respiratory tract irritation] - Category 3

Note

The information contained in the Safety Data Sheet is based on our data available on the date of publication. The information is intended to aid the user in controlling the handling risks; it is not to be construed as a warranty or specification of the product quality. The information may not be or may not altogether be applicable to combinations of the product with other substances or to particular applications. The user is responsible for ensuring that appropriate precautions are taken and for satisfying themselves that the data are suitable and sufficient for the product's intended purpose. In case of any unclarity we advise consulting the supplier or an expert.

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